

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/003337

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 G01N 33/53, G01N 27/26, G01N 27/447, C12M 1/36, C12P 19/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G01N 33/53, G01N 37/00, F15C 1/00, B65D 37/00, B29D 11/00, G01N 27/26

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Patent and Applications for Inventions since 1975

Korean Utility Models and Applications for Utility Models since 1975

Japanese Utility Models and Applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKIPASS, WPI, USPTO, PAJ, NCBI, INSPECT "plastic, polystyrene, polyethylene, substrate, plate, bonding, sealing, organic, solvent, chloroform, acetone, method, fill*, add*, sample, hole, pressur*, decompress*, channel"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6561208 B1 (O'Connor, S.D., et al., US) 13 May 2003 - see columns 4 & 7-10, claims & Figs 2 & 3	1, 7-9
Y	US 2002/0117517 A1 (Unger, M.A., et al., US) 29 Aug 2002 - see pages 7-11 & claims	1, 7-9
Y	US 6375871 B1 (Bentsen, J.G., et al., US) 23 Apr 2002 - see columns 9	1, 7-9
A	US 6284113 B1 (Bjornson, T.O., et al., US) 04 Sep 2001 - see abstract & column 13	1-16

Further documents are listed in the continuation of Box C.

See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search 29 MARCH 2005 (29.03.2005)	Date of mailing of the international search report 30 MARCH 2005 (30.03.2005)
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer SHIN, Weon Hye Telephone No. 82-42-481-5591



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/KR2004/003337

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 06561208 B1	13 May 2003 EP 01276565 A2 JP.15531018 WO 0178893 A2	AU 200157047 A1 22 Jan 2003 21 Oct 2003 25 Oct 2001	30 Oct 2001
US 20020117517 A1	29 Aug 2002 WO 02060582 A2	EP 01345698 A2 08 Aug 2002	24 Sep 2003
US 06375871 B1	23 Apr 2002 CA 2361141 A1 CN 1305410 A EP 01087864 A1 JP 14518202 A1 KR 1020010052934 A1 WO 9965664 A1	AU 199940032 A1 27 Jul 2000 25 Jul 2001 .04 Apr 2001 25 Jun 2002 25 Jun 2001 23 Dec 1999	05 Jan 2000
US 06284113 B1	04 Sep 2001 CA 2301557 A1 EP 01019696 A1 JP 13517789 A1 WO 9915876 A1	AU 199893754 A1 01 Apr 1999 19 Jul 2000 09 Oct 2001 01 Apr 1999	12 Apr 1999